

PROVIDER NAME: CASCADIA WINDOWS & DOORS

CLOSING THE GAP

LEVERAGING CLADDING ATTACHMENTS TO DELIVER HIGH-PERFORMANCE EXTERIOR WALL ASSEMBLIES

AIA PROVIDER #: 40107438

COURSE #: CC-ED-21

AIA CREDIT: 1 LU | HSW

SYNOPSIS

Jurisdictions across North America continue to transition beyond ASHRAE standards for exterior wall assemblies, instead adopting a more comprehensive building energy performance standard (BEPS) approach to envelope design.

This shift brings advantages like increased design flexibility and reduced operating costs, but it also calls for a rethinking of how these wall assemblies are constructed. Instead of relying on traditional line-by-line methods, the performance of individual components must be considered along side their overall impact on the entire high-performance exterior walls assembly.

This webinar will explore the role of thermal bridging in meeting new BEPS, as well as ASHRAE standards. It will cover common insulation methods—including interior, split, and exterior applications—and present strategies to minimize thermal bridging through different cladding attachments. The session will conclude with real-world case studies that highlight the importance of an integrated approach to component performance in achieving optimal results.

LEARNING OBJECTIVES

1. Gain an understanding of emerging Building Energy Performance Standards (BEPS), and compare their key similarities and differences with ASHRAE standards.
2. Explore how highly conductive wall components affect the overall effective wall R-value in a non-linear manner.
3. Review common cladding attachment systems by comparing factors such as cost, thermal performance, constructability, installation efficiency, and fire resistance.
4. Review the *Cladding Support Components and Systems* Product Category Rule (PCR), which govern Environmental Product Declarations (EPD) for cladding attachments
5. Understand the real-world impact of various exterior wall assembly methods on project outcomes.

HSW JUSTIFICATION

The building science foundation of this topic helps attendees better understand how to apply physics in the design of exterior building components, improving interior comfort and reducing energy consumption by minimizing heating and cooling demands.

FACILITATOR QUALIFICATIONS

- Cascadia Windows CES facilitators have been trained on CES guidelines and presentation skills.

METHOD OF DELIVERY

- The CES facilitator utilizes a PowerPoint presentation to provide an in-depth overview of the physics, details, and effective thermal performance of insulated building assemblies. Also covered: latest changes to related building code requirements, and various solutions (conventional and proprietary).

AUDIO/VISUAL REQUIRED

- The CES facilitator supplies the laptop. A projector or large display is requested, unless other arrangements have been made in advance of the presentation. The present can provide the projector if requested in advance.

COST TO PARTICIPANTS

- There is no cost to bring this program to your firm or chapter meeting

TARGET AUDIENCE

- Architects and specifiers, engineers, owners, contractors and other design professionals. Audience size: 3 to 100+.
- The program is suitable for all levels of experience and has time allocated within it in for questions and answers.

POINT OF CONTACT

- For more information or to schedule a presentation please contact Cascadia's main office at 1- 604-857-4600 or info@cascadiawindows.com.